



Anchorage Office 550 West 7 <sup>th</sup> Avenue, Suite 1020 Anchorage, AK 99501-3562 (907) 269-8400 Fax: (907) 269-8904	Juneau Office 400 Willoughby, #400 PO Box 111020 Juneau, AK 99811-1020 (907) 465-3400 Fax: (907) 465-3886	Fairbanks Office 3700 Airport Way Fairbanks, AK 99709-4699 (907) 451-2705 Fax: (907) 451-2703	<b>For ADNR Use Only Date Stamp</b>
<b>For ADNR Use Only TWUA #</b>	<b>For ADNR Use Only CID #(s)</b>	<b>Receipt Code "WR"</b>	

## APPLICATION FOR TEMPORARY USE OF WATER

**Applicants must complete all sections of this application.**

**Incomplete applications will not be accepted**

- Up to five (5) separate sources of water may be requested on a single application. If more than five (5) separate water sources are needed, additional applications will be required.
  - Types of sources include: river, stream, creek, spring, lake, pond, well, etc.
- Normal processing time is approximately 60 days based upon the date DNR determines the application is complete, and anticipated project start date.
- If Needed: CALL FOR INSTRUCTIONS or answers to questions before submitting application:
  - For mining water uses, excluding gravel, contact the Fairbanks office at (907) 451-2790
  - For hydroelectric and all other Southeast projects, contact the Juneau office at (907) 465-2533.
  - For all other temporary uses of water, contact the Anchorage office at (907) 269-8641.
- Unless otherwise requested, the issued authorizations are emailed to the Applicant.

**SECTION I: APPLICANT INFORMATION**

Project Name: \_\_\_\_\_

Applicant Name (Individual or Company): \_\_\_\_\_

Name and Title of Company Contact: \_\_\_\_\_

Mailing Address: \_\_\_\_\_  
 \_\_\_\_\_

Billing Address: \_\_\_\_\_  
 \_\_\_\_\_

Phone Number: \_\_\_\_\_ Alternate Phone Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

Agent/Consultant Name and Title: \_\_\_\_\_

Organization Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_  
 \_\_\_\_\_

Phone Number: \_\_\_\_\_ Alternate Phone Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

**SECTION II: FEES**

**Application Fee \$450:** (the application fee covers up to 18 hours of staff time)

Submit non-refundable fee of \$450 for **each** application per 11 AAC 05.260.

Make checks payable to the "Department of Natural Resources."

**\*\* For Credit Card payments, wait for confirmation email with assigned case number and payment instructions.**

**SECTION III: MAP(s)**

1. Attach a **legible map(s)**, such as a USGS topographic map or subdivision plat, that includes labeled meridian, township, range, and section lines (MTRS). The map(s) must be of sufficient scale to show the location of the proposed activity.

2. **Indicate clearly on the map the following:** (check each box when completed)

the location where **water is to be withdrawn from each water source.**

the area(s) where **the water is proposed to be used.**

If applicable:

the area(s) where **water is to be discharged.**

the area(s) where **water is to be returned to the water source.**

**SECTION IV: PERIOD OF USE**

Total number of years water use is being requested: \_\_\_\_\_ (maximum five years)

Water Use Start Date: \_\_\_\_\_ Water Use End Date: \_\_\_\_\_

Period of Use:  Seasonal Months & Days of use (e.g. June 1<sup>st</sup> - September 30<sup>th</sup>): \_\_\_\_\_

Year-round

**SECTION V: LOCATION DESCRIPTION**

Identify each water source and its geographic location using MTRS. Include Lat/Long coordinates if available.

Example: Finger Lake: Seward Meridian, Township 22 North, Range 15 West, Section 20, SW¼NW¼

MTRS: S 22N 15W 20 SW NW

Lat/Long: 61°59'1.892"N, 152°04'22.037"W

**Table 1: Name & Location of Water Source(s)** (No more than 5 water separate sources per application)

Geographic Name of Water Body or Well Depth <i>(if unnamed, put "Unnamed" ; e.g. unnamed lake.)</i>	Meridian	Township	Range	Section(s)	Quarter Sections (optional)			
					QQ		Q	
1.						1/4		1/4
Latitude:				Longitude:				
2.						1/4		1/4
Latitude:				Longitude:				
3.						1/4		1/4
Latitude:				Longitude:				
4.						1/4		1/4
Latitude:				Longitude:				
5.						1/4		1/4
Latitude:				Longitude:				

Datum Used: Geographic Coordinate System for Lat/Long (e.g. NAD83): \_\_\_\_\_

Identify the project area(s) where water is to be used and the geographic locations using MTRS. Include Lat/Long coordinates if available. If linear, such as a road construction project, include a start and end Lat/Long and/or milepost.

Table 2: Location of Water Use Area(s)								
Project Area (e.g. milepost range, place name, survey, etc.)	Meridian	Township	Range	Section(s)	Quarter Sections (optional)			
					QQ			Q
1.						1/4		1/4
	Start Latitude:			Start Longitude:				
	End Latitude:			End Longitude:				
2.						1/4		1/4
	Start Latitude:			Start Longitude:				
	End Latitude:			End Longitude:				
3.						1/4		1/4
	Start Latitude:			Start Longitude:				
	End Latitude:			End Longitude:				

Datum Used: Geographic Coordinate System for Lat/Long (e.g. NAD83): \_\_\_\_\_  
(Attach additional sheets if needed)

Identify the location(s) where water is to be discharged or returned to the source and the geographic locations using MTRS. Include Lat/Long coordinates if available.

Table 3: Location of Water Discharge or Return Flow (if applicable)								
Describe the area where the water will be discharged or returned to the source (Example: ground surface, name of river, lake, well, etc.)	Meridian	Township	Range	Section(s)	Quarter Sections (optional)			
					QQ			Q
						1/4		1/4
	Latitude:			Longitude:				
						1/4		1/4
	Latitude:			Longitude:				
						1/4		1/4
	Latitude:			Longitude:				
						1/4		1/4
	Latitude:			Longitude:				

Datum Used: Geographic Coordinate System for Lat/Long (e.g. NAD83): \_\_\_\_\_  
(Attach additional sheets if needed)

**SECTION VI: AMOUNT OF WATER per source**

The next five pages contain a data table for each specific water source being requested (Source 1, Source 2, Source 3, Source 4, and Source 5). Complete a data table for each source. If you are only requesting one (1) source, complete only the Source 1 data table.

No more than five (5) sources per application.

Glossary of terms are listed on the last page of this application.

<b>Source 1</b> (as identified in Section V, Table 1)						
<input type="checkbox"/> <b>Surface Source Name (Example: Chena River):</b>						
Source Depth (ft):	Source Width (ft) (river, stream or creek only)		Surface Area (acres): (lake or pond. only)		Source Volume (gallons):	
Data Source(s): (i.e. bathymetry, etc.)						
Are fish present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown						
If Yes, what fish type(s) are they: <input type="checkbox"/> Anadromous <input type="checkbox"/> Resident <input type="checkbox"/> Resistant <input type="checkbox"/> Sensitive <input type="checkbox"/> Unknown						
<input type="checkbox"/> <b>Subsurface Source Name (Example: Well A1):</b>						
Well Depth (ft):	Well Diameter (in):		Static Water Level (ft):		Recovery Rate (g/m):	
Is there a known contaminated site within ¼ mile of this source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown						
<b>Quantity of Water to be used or taken from this source only:</b>						
Amount of Water to be Used:	Total amount per Day (gallons)	Total Seasonal Amount (gallons)	Total Seasonal Amount of Ice (gallons)	Total Water & Ice Combined (gallons)	Date Water Use Will Begin (mm/dd/yyyy)	Date Water Use Will End (mm/dd/yyyy)
<b>Purpose:</b> Describe how the water is to be used and for what purpose. If multiple uses describe each use. Specify season of use if applicable.						
<b>Method of Taking:</b> (Check and complete all that apply) <input type="checkbox"/> Withdrawal <input type="checkbox"/> Diversion <input type="checkbox"/> Impoundment <input type="checkbox"/> In Source Water Use						
<input type="checkbox"/> <b>Withdrawal:</b> If there are considerable variations in the pump/siphon capacities and operation schedule, describe difference in an attachment.						
<input type="checkbox"/> Pumps	Number of Pump(s)/Siphon(s)	Pump/Siphon Intake Size (inches)	Max. Pump/Siphon Rate (gpm)	Max. Hours Pumping/Siphoning per Day (hrs)	# of Days Used/Month (days)	Length of pipe/hose (pump/siphon to point of use) (ft)
<input type="checkbox"/> Siphon						
Haul Trucks:	Number of Trucks:		Tank Capacity (gal):		# of Loads/day:	
Storage Tanks:	Number of Tanks:		Tank Capacity (gal):		# of Fill/day:	
<input type="checkbox"/> <b>Diversion:</b> Is this diversion a stream bypass? <input type="checkbox"/> Yes <input type="checkbox"/> No						
Does the diversion have a headgate structure? <input type="checkbox"/> Yes <input type="checkbox"/> No    If Yes, how many hours/day will the headgate be open: _____ hrs						
Pump:	Pipe/Hose Diameter (in)		Pipe/Hose Length (ft) (from take point to pint of use)		Screened <input type="checkbox"/> Yes <input type="checkbox"/> No	
Gravity / Ditch:	Length (ft)	Width (ft)	Depth (ft)	Lined <input type="checkbox"/> Yes <input type="checkbox"/> No		Head Elevation (ft)
<input type="checkbox"/> <b>Impoundment: Attach drawings, specifications and plans</b>						
Dam:	<input type="checkbox"/> Existing Dam <input type="checkbox"/> Dam to be constructed					
	Dam Height (ft)		Dam Width at Base (ft)		Dam Width at Crest (ft)	Water Storage Capacity (gallons or acre-feet)
Reservoirs / Cofferdam:	Length (ft)	Width (ft)	Depth (ft)	Reservoir Storage Capacity (gallons or acre-feet)		Cofferdam Dewatering Amount (gallons or acre-feet)
Levee	Length (ft)	Width (ft)	Height (ft)	Is this a Permanent Levee? <input type="checkbox"/> Yes <input type="checkbox"/> No		Diversion Rate (gpm or cfs)
<input type="checkbox"/> <b>In Source Water Use:</b> Water used does not leave water source <b>Attach drawings, specifications and plans</b>						
<input type="checkbox"/> Hydrokinetic Device <input type="checkbox"/> Hydroelectric Turbine <input type="checkbox"/> Suction Dredge						

<b>Source 2</b> (as identified in Section V, Table 1)						
<input type="checkbox"/> <b>Surface Source Name (Example: Chena River):</b>						
Source Depth (ft):	Source Width (ft) (river, stream or creek only)		Surface Area (acres): (lake or pond. only)		Source Volume (gallons):	
Data Source(s): (i.e. bathymetry, etc.)						
Are fish present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown						
If Yes, what fish type(s) are they: <input type="checkbox"/> Anadromous <input type="checkbox"/> Resident <input type="checkbox"/> Resistant <input type="checkbox"/> Sensitive <input type="checkbox"/> Unknown						
<input type="checkbox"/> <b>Subsurface Source Name (Example: Well A1):</b>						
Well Depth (ft):	Well Diameter (in):		Static Water Level (ft):		Recovery Rate (g/m):	
Is there a known contaminated site within ¼ mile of this source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown						
<b>Quantity of Water to be used or taken from this source only:</b>						
Amount of Water to be Used:	Total amount per Day (gallons)	Total Seasonal Amount (gallons)	Total Seasonal Amount of Ice (gallons)	Total Water & Ice Combined (gallons)	Date Water Use Will Begin (mm/dd/yyyy)	Date Water Use Will End (mm/dd/yyyy)
<b>Purpose:</b> Describe how the water is to be used and for what purpose. If multiple uses describe each use. Specify season of use if applicable.						
<b>Method of Taking:</b> (Check and complete all that apply) <input type="checkbox"/> Withdrawal <input type="checkbox"/> Diversion <input type="checkbox"/> Impoundment <input type="checkbox"/> In Source Water Use						
<input type="checkbox"/> <b>Withdrawal:</b> If there are considerable variations in the pump/siphon capacities and operation schedule, describe difference in an attachment.						
<input type="checkbox"/> Pumps	Number of Pump(s)/Siphon(s)	Pump/Siphon Intake Size (inches)	Max. Pump/Siphon Rate (gpm)	Max. Hours Pumping/Siphoning per Day (hrs)	# of Days Used/Month (days)	Length of pipe/hose (pump/siphon to point of use) (ft)
<input type="checkbox"/> Siphon						
Haul Trucks:	Number of Trucks:		Tank Capacity (gal):		# of Loads/day:	
Storage Tanks:	Number of Tanks:		Tank Capacity (gal):		# of Fill/day:	
<input type="checkbox"/> <b>Diversion:</b> Is this diversion a stream bypass? <input type="checkbox"/> Yes <input type="checkbox"/> No						
Does the diversion have a headgate structure? <input type="checkbox"/> Yes <input type="checkbox"/> No    If Yes, how many hours/day will the headgate be open: _____ hrs						
Pump:	Pipe/Hose Diameter (in)		Pipe/Hose Length (ft) (from take point to pint of use)		Screened <input type="checkbox"/> Yes <input type="checkbox"/> No	
Gravity / Ditch:	Length (ft)	Width (ft)	Depth (ft)	Lined <input type="checkbox"/> Yes <input type="checkbox"/> No		Head Elevation (ft)
<input type="checkbox"/> <b>Impoundment: Attach drawings, specifications and plans</b>						
Dam:	<input type="checkbox"/> Existing Dam <input type="checkbox"/> Dam to be constructed					
	Dam Height (ft)		Dam Width at Base (ft)		Dam Width at Crest (ft)	Water Storage Capacity (gallons or acre-feet)
Reservoirs / Cofferdam:	Length (ft)	Width (ft)	Depth (ft)	Reservoir Storage Capacity (gallons or acre-feet)		Cofferdam Dewatering Amount (gallons or acre-feet)
Levee	Length (ft)	Width (ft)	Height (ft)	Is this a Permanent Levee? <input type="checkbox"/> Yes <input type="checkbox"/> No		Diversion Rate (gpm or cfs)
<input type="checkbox"/> <b>In Source Water Use:</b> Water used does not leave water source <b>Attach drawings, specifications and plans</b>						
<input type="checkbox"/> Hydrokinetic Device <input type="checkbox"/> Hydroelectric Turbine <input type="checkbox"/> Suction Dredge						

<b>Source 3</b> (as identified in Section V, Table 1)						
<input type="checkbox"/> <b>Surface Source Name (Example: Chena River):</b>						
Source Depth (ft):	Source Width (ft) (river, stream or creek only)		Surface Area (acres): (lake or pond. only)		Source Volume (gallons):	
Data Source(s): (i.e. bathymetry, etc.)						
Are fish present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown						
If Yes, what fish type(s) are they: <input type="checkbox"/> Anadromous <input type="checkbox"/> Resident <input type="checkbox"/> Resistant <input type="checkbox"/> Sensitive <input type="checkbox"/> Unknown						
<input type="checkbox"/> <b>Subsurface Source Name (Example: Well A1):</b>						
Well Depth (ft):	Well Diameter (in):		Static Water Level (ft):		Recovery Rate (g/m):	
Is there a known contaminated site within ¼ mile of this source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown						
<b>Quantity of Water to be used or taken from this source only:</b>						
Amount of Water to be Used:	Total amount per Day (gallons)	Total Seasonal Amount (gallons)	Total Seasonal Amount of Ice (gallons)	Total Water & Ice Combined (gallons)	Date Water Use Will Begin (mm/dd/yyyy)	Date Water Use Will End (mm/dd/yyyy)
<b>Purpose:</b> Describe how the water is to be used and for what purpose. If multiple uses describe each use. Specify season of use if applicable.						
<b>Method of Taking:</b> (Check and complete all that apply) <input type="checkbox"/> Withdrawal <input type="checkbox"/> Diversion <input type="checkbox"/> Impoundment <input type="checkbox"/> In Source Water Use						
<input type="checkbox"/> <b>Withdrawal:</b> If there are considerable variations in the pump/siphon capacities and operation schedule, describe difference in an attachment.						
<input type="checkbox"/> Pumps	Number of Pump(s)/Siphon(s)	Pump/Siphon Intake Size (inches)	Max. Pump/Siphon Rate (gpm)	Max. Hours Pumping/Siphoning per Day (hrs)	# of Days Used/Month (days)	Length of pipe/hose (pump/siphon to point of use) (ft)
<input type="checkbox"/> Siphon						
Haul Trucks:	Number of Trucks:		Tank Capacity (gal):		# of Loads/day:	
Storage Tanks:	Number of Tanks:		Tank Capacity (gal):		# of Fill/day:	
<input type="checkbox"/> <b>Diversion:</b> Is this diversion a stream bypass? <input type="checkbox"/> Yes <input type="checkbox"/> No						
Does the diversion have a headgate structure? <input type="checkbox"/> Yes <input type="checkbox"/> No    If Yes, how many hours/day will the headgate be open: _____ hrs						
Pump:	Pipe/Hose Diameter (in)		Pipe/Hose Length (ft) (from take point to pint of use)		Screened <input type="checkbox"/> Yes <input type="checkbox"/> No	
Gravity / Ditch:	Length (ft)	Width (ft)	Depth (ft)	Lined <input type="checkbox"/> Yes <input type="checkbox"/> No		Head Elevation (ft)
<input type="checkbox"/> <b>Impoundment: Attach drawings, specifications and plans</b>						
Dam:	<input type="checkbox"/> Existing Dam <input type="checkbox"/> Dam to be constructed					
	Dam Height (ft)		Dam Width at Base (ft)		Dam Width at Crest (ft)	
Reservoirs / Cofferdam:	Length (ft)	Width (ft)	Depth (ft)	Reservoir Storage Capacity (gallons or acre-feet)		Cofferdam Dewatering Amount (gallons or acre-feet)
Levee	Length (ft)	Width (ft)	Height (ft)	Is this a Permanent Levee? <input type="checkbox"/> Yes <input type="checkbox"/> No		Diversion Rate (gpm or cfs)
<input type="checkbox"/> <b>In Source Water Use:</b> Water used does not leave water source <b>Attach drawings, specifications and plans</b>						
<input type="checkbox"/> Hydrokinetic Device <input type="checkbox"/> Hydroelectric Turbine <input type="checkbox"/> Suction Dredge						

**Source 4** (as identified in Section V, Table 1)

**Surface Source Name (Example: Chena River):**

Source Depth (ft):	Source Width (ft) <i>(river, stream or creek only)</i>	Surface Area (acres): <i>(lake or pond. only)</i>	Source Volume (gallons):
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Data Source(s):  
(i.e. bathymetry, etc.)

Are fish present?     Yes     No     Unknown

If Yes, what fish type(s) are they:     Anadromous     Resident     Resistant     Sensitive     Unknown

**Subsurface Source Name (Example: Well A1):**

Well Depth (ft):	Well Diameter (in):	Static Water Level (ft):	Recovery Rate (g/m):
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Is there a known contaminated site within ¼ mile of this source?     Yes     No     Unknown

**Quantity of Water to be used or taken from this source only:**

Amount of Water to be Used:	Total amount per Day (gallons)	Total Seasonal Amount (gallons)	Total Seasonal Amount of Ice (gallons)	Total Water & Ice Combined (gallons)	Date Water Use Will Begin (mm/dd/yyyy)	Date Water Use Will End (mm/dd/yyyy)

**Purpose:** Describe how the water is to be used and for what purpose. If multiple uses describe each use. Specify season of use if applicable.

**Method of Taking:** (Check and complete all that apply)     Withdrawal     Diversion     Impoundment     In Source Water Use

**Withdrawal:** *If there are considerable variations in the pump/siphon capacities and operation schedule, describe difference in an attachment.*

<input type="checkbox"/> Pumps	Number of Pump(s)/Siphon(s)	Pump/Siphon Intake Size (inches)	Max. Pump/Siphon Rate (gpm)	Max. Hours Pumping/Siphoning per Day (hrs)	# of Days Used/Month (days)	Length of pipe/hose (pump/siphon to point of use) (ft)
<input type="checkbox"/> Siphon						

Haul Trucks:	Number of Trucks:	Tank Capacity (gal):	# of Loads/day:
Storage Tanks:	Number of Tanks:	Tank Capacity (gal):	# of Fill/day:

**Diversion:**    Is this diversion a stream bypass?     Yes     No

Does the diversion have a headgate structure?     Yes     No    If Yes, how many hours/day will the headgate be open: \_\_\_\_\_ hrs

Pump:	Pipe/Hose Diameter (in)		Pipe/Hose Length (ft) <i>(from take point to pint of use)</i>		Screened	Diversion Rate (gpm or cfs)
					<input type="checkbox"/> Yes <input type="checkbox"/> No	
Gravity / Ditch:	Length (ft)	Width (ft)	Depth (ft)	Lined		Head Elevation (ft)
				<input type="checkbox"/> Yes <input type="checkbox"/> No		Diversion Rate (gpm or cfs)

**Impoundment: Attach drawings, specifications and plans**

Dam:	<input type="checkbox"/> Existing Dam <input type="checkbox"/> Dam to be constructed				
	Dam Height (ft)	Dam Width at Base (ft)	Dam Width at Crest (ft)	Water Storage Capacity (gallons or acre-feet)	

Reservoirs / Cofferdam:	Length (ft)	Width (ft)	Depth (ft)	Reservoir Storage Capacity (gallons or acre-feet)	Cofferdam Dewatering Amount (gallons or acre-feet)

Levee	Length (ft)	Width (ft)	Height (ft)	Is this a Permanent Levee?	Diversion Rate (gpm or cfs)
				<input type="checkbox"/> Yes <input type="checkbox"/> No	

**In Source Water Use:** *Water used does not leave water source*    **Attach drawings, specifications and plans**

Hydrokinetic Device     Hydroelectric Turbine     Suction Dredge

**Source 5** (as identified in Section V, Table 1)

**Surface Source Name (Example: Chena River):**

Source Depth (ft):	Source Width (ft) <i>(river, stream or creek only)</i>	Surface Area (acres): <i>(lake or pond. only)</i>	Source Volume (gallons):
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Data Source(s):  
(i.e. bathymetry, etc.)

Are fish present?     Yes     No     Unknown

If Yes, what fish type(s) are they:     Anadromous     Resident     Resistant     Sensitive     Unknown

**Subsurface Source Name (Example: Well A1):**

Well Depth (ft):	Well Diameter (in):	Static Water Level (ft):	Recovery Rate (g/m):
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Is there a known contaminated site within ¼ mile of this source?     Yes     No     Unknown

**Quantity of Water to be used or taken from this source only:**

Amount of Water to be Used:	Total amount per Day (gallons)	Total Seasonal Amount (gallons)	Total Seasonal Amount of Ice (gallons)	Total Water & Ice Combined (gallons)	Date Water Use Will Begin (mm/dd/yyyy)	Date Water Use Will End (mm/dd/yyyy)

**Purpose:** Describe how the water is to be used and for what purpose. If multiple uses describe each use. Specify season of use if applicable.

**Method of Taking:** (Check and complete all that apply)     Withdrawal     Diversion     Impoundment     In Source Water Use

**Withdrawal:** *If there are considerable variations in the pump/siphon capacities and operation schedule, describe difference in an attachment.*

<input type="checkbox"/> Pumps	Number of Pump(s)/Siphon(s)	Pump/Siphon Intake Size (inches)	Max. Pump/Siphon Rate (gpm)	Max. Hours Pumping/Siphoning per Day (hrs)	# of Days Used/Month (days)	Length of pipe/hose (pump/siphon to point of use) (ft)
<input type="checkbox"/> Siphon						

Haul Trucks:	Number of Trucks:	Tank Capacity (gal):	# of Loads/day:
Storage Tanks:	Number of Tanks:	Tank Capacity (gal):	# of Fill/day:

**Diversion:**    Is this diversion a stream bypass?     Yes     No

Does the diversion have a headgate structure?     Yes     No    If Yes, how many hours/day will the headgate be open: \_\_\_\_\_ hrs

Pump:	Pipe/Hose Diameter (in)		Pipe/Hose Length (ft) <i>(from take point to pint of use)</i>		Screened	Diversion Rate (gpm or cfs)
					<input type="checkbox"/> Yes <input type="checkbox"/> No	
Gravity / Ditch:	Length (ft)	Width (ft)	Depth (ft)	Lined		Head Elevation (ft)
				<input type="checkbox"/> Yes <input type="checkbox"/> No		Diversion Rate (gpm or cfs)

**Impoundment: Attach drawings, specifications and plans**

Dam:	<input type="checkbox"/> Existing Dam <input type="checkbox"/> Dam to be constructed					
	Dam Height (ft)		Dam Width at Base (ft)		Dam Width at Crest (ft)	
Reservoirs / Cofferdam:	Length (ft)	Width (ft)	Depth (ft)	Reservoir Storage Capacity (gallons or acre-feet)		Cofferdam Dewatering Amount (gallons or acre-feet)
Levee	Length (ft)	Width (ft)	Height (ft)	Is this a Permanent Levee?		Diversion Rate (gpm or cfs)
				<input type="checkbox"/> Yes <input type="checkbox"/> No		

**In Source Water Use:** *Water used does not leave water source Attach drawings, specifications and plans*

Hydrokinetic Device     Hydroelectric Turbine     Suction Dredge



**SECTION VII: PROJECT DESCRIPTION**

1. Summarize your entire project. Attach a detailed project description.

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(Attach additional sheets if needed)

2. What alternative water sources are available should a portion of your requested use be excluded because of water shortage or public interest concerns?

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(Attach additional sheets if needed)

3. Are there any surface water bodies or water wells at or near your site(s) that could be affected by the proposed activity?

- Yes     No     Unknown

If yes, list them and any surface water or ground water monitoring programs going on at or near the sites, any water shortages or water quality problems in the area, and any information about the water table, if known.

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(Attach additional sheets if needed)

4. Briefly describe what changes at the project site and surrounding area will occur or are likely to occur because of construction or operation of your project (e.g. public access, streambed alteration, trenching, grading, excavation, etc.)

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(Attach additional sheets if needed)

5. Briefly describe land use around the water take, use and return flow points (e.g. national park, recreational site, residential).

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(Attach additional sheets if needed)

6. Will the project be worked in phases?     Yes     No

If Yes, describe the phases.

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(Attach additional sheets if needed)

**SECTION VIII: OTHER PERMITS THAT MAY BE REQUIRED**

- 1. Have you contacted ADF&G for any required Permits?  Yes  No
- 2. Have you contacted ADEC for any required Water Authorizations?  Yes  No
- 3. Have you contacted the U.S. Army Corps of Engineers for any required Permits?  Yes  No
- 4. Have you received land access permission for all requested water sources, uses, and discharges?  Yes  No
- 5. If application includes an artificial barrier, such as a dam, reservoir, cofferdam, levee, etc., have you submitted the "Hazard Potential Classification and Jurisdictional Review" form to determine if it falls within the jurisdiction of the Alaska Dam Safety Program? <http://dnr.alaska.gov/mlw/water/dams/>  Yes  No

**SECTION IX: SIGNATURE**

**Check all that are attached:**

- \$450 Application Fee: Non-refundable.  
Make checks payable to the "Department of Natural Resources."  
*\*\* For Credit Card payments, wait for confirmation email with assigned case number and payment instructions.*
- Detailed Project Description pertaining to Water Use
  - Sketches, photos, specifications and plans
  - Plans of water systems, if applicable
- Legible map that includes:
  - Meridian, township, range, section
  - Location of water source(s) and take point(s) are clearly marked and labeled
  - Location(s) where water is to be used is/are clearly marked and labeled
  - If applicable, location(s) where water is to be discharged or returned to the water source is/are clearly marked and labeled
- Copy of ADF&G Fish Habitat Permit(s), if applicable and available.
- Well Log(s), if applicable and available.
- Bathymetry or other source volume or flow rate data, if applicable and available

11 AAC 93.220 sets out the required information on the application and authorizes the department to consider any other information needed to process an application for a temporary use of water.

AS 38.05.035(a) authorizes the director to decide what information is needed to process an application for the sale or use of state land and resources. This information is made a part of the state public land records and becomes public information under AS 40.25.110 and 40.25.120 (unless the information qualifies for confidentiality under AS 38.05.035(a)(8) and confidentiality is requested, AS 43.05.230, or AS 45.48). Public information is open to inspection by you or any member of the public. A person who is the subject of the information may challenge its accuracy or completeness under AS 44.99.310, by giving a written description of the challenged information, the changes needed to correct it, and a name and address where the person can be reached. False statements made in an application for a benefit are punishable under AS 11.56.210. In submitting this form, the applicant agrees with the Department to use "electronic" means to conduct "transactions" (as those terms are used in the Uniform Electronic Transactions Act, AS 09.80.010 – AS 09.80.195) that relate to this form and that the Department need not retain the original paper form of this record: the department may retain this record as an electronic record and destroy the original.

By signature below, I hereby certify that I have the legal authority or have been granted the authority, to sign this application for a Temporary Water Use Authorization on behalf of the applicant listed. I also certify that the information presented in this application is true and correct to the best of my knowledge. I understand that no water right or priority is established per 11 AAC 93.210-220, that the water used remains subject to appropriation by others, and that temporary water use authorizations may be revoked if necessary to protect the water rights of other persons or the public interest.

\_\_\_\_\_  
Signature of Applicant or Authorized Representative

\_\_\_\_\_  
Date:

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Organization

**REFERENCES**

**Measurement Units:**

CFS = cubic feet per second                      AF = acre-feet of water  
GPM = gallons per minute                      AFD = acre-feet per day  
GPD = gallons per day                      AFY = acre-feet per year  
MGD = million gallons per day

**Conversions:**

1 CFS = 646,317 GPD              1 GPM = 1,440 GPD              1 AF = 325,851 Gallons

**11 AAC 93.035. Requirement to apply for the use of a significant amount of water:**

- (a) A significant amount of water is that amount of water for which an application for a water right or an application for a temporary water use authorization is required, as described in (b) of this section.
- (b) A person shall file an application for a water right under 11 AAC 93.040 or for a temporary water use authorization under 11 AAC 93.220 before
  - (1) the consumptive use of more than 5,000 gallons of water from a single source in a single day;
  - (2) the regular daily or recurring consumptive use of more than 500 gpd from a single source for more than 10 days per calendar year;
  - (3) the non-consumptive use of more than 30,000 gpd (0.05 cubic feet per second) from a single source; or
  - (4) any water use that may adversely affect the water rights of other appropriators or the public interest.

**GLOSSARY OF TERMS**

**ADF&G:**

Alaska Department of Fish and Game.

**ADEC:**

Alaska Department of Environmental Conservation

**Anadromous Fish:**

Fish that migrate from salt water to spawn in fresh water. A fish or fish species that spends portions of its life cycle in both fresh and salt waters, entering fresh water from the sea to spawn and includes the anadromous forms of pacific trout and salmon of the genus *Oncorhynchus* (rainbow and cutthroat trout and chinook, coho, sockeye, chum and pink salmon), Arctic char, Dolly Varden, sheefish, smelts, lamprey, whitefish, and sturgeon.

**Cofferdam:**

A water tight enclosure pumped dry to permit construction work below the waterline.

**Dam:**

An artificial barrier constructed to impound or hold back water to raise its level, or to divert the flow of water.

- AS 46.17.900(3) "Dam" includes an artificial barrier, and its appurtenant works, which may impound or divert water.

**Discharge Area:**

The location where water is discharged.

**Diversion:**

A channel or other structure used to change or direct the flow of water, over and in direct contact with the ground, from one watercourse to another. Any activity, constructed or not, that alters the natural flow of water such as: fill, levee, ditches, channels, culverts, cofferdams, temporary or permanent dams and reservoirs, etc.)

**Gravity/Ditch:**

The use of a natural or constructed ditch or channel to divert the natural flow of water from one location to another.

**Haul Trucks:**

Trucks specifically designed to haul water.

**Headgate:**

A gate for controlling the water flowing into a pipe or channel.

**Impoundment:**

Any temporary or permanent artificial barrier that holds back or confines the natural flow of water such as: a dam, reservoir, cofferdam, etc.).

**In Source Water Use:**

A device that is placed within a water source that utilizes the water for a specific purpose without removing the water from the source.

Examples:

- Hydrokinetic Device or Hydroelectric Turbine: source water flow is used to turn the device or turbine fins which turn a generator creating power.
- Suction dredging from a barge or other floating structure where:
  - both water and sediment are sucked up creating a water/sediment slurry which is pumped to another location within the water source for discharge; or
  - the water is separated from the water/sediment slurry with the separated water being discharged back into the water source and the sediment being discharged elsewhere.

**Levee:**

A natural or manmade embankment or barrier, along the edge of a stream, lake or river, built to direct the flow of water or to prevent the overflow of water such as a river.

**Method of Taking:**

How the water is removed from the source (i.e. pumping, diverting, and/or impounding) and the type of equipment used to remove the water.

**Pump:**

The use of mechanical pumps (manual, electric, internal combustion, etc.) to move water from one location to another.

**Pump Around:**

A dewatering method involving withdrawing water via pump, such as from a cofferdam or stream, to isolate the jurisdictional water from the work area to work in dry conditions. The water, which is initially pumped, is sometimes then discharged into a ditch or channel to complete the process of moving the water around the work area.

**Recovery Rate: (Wells)**

The rate at which water flows into the well while water is being pumped out of the well.

**Reservoir:**

A structure constructed to store water or cause water to be stored for use. A natural or manmade pond, lake, or basin, used for the storage, regulation, and control of water. Water held in storage in either an artificial or natural basin and impoundments primarily for a source of water for power, municipal, industrial, domestic or flood control use.

- AS 46.17.900(9) "reservoir" means a basin, appurtenant to a dam, that is capable of impounding water.

**Resident Fish:**

Fish that do not migrate out to the ocean, but remain in freshwater

**Resistant Fish: (North Slope)**

Species of fish that are resistant to low concentrations of dissolved oxygen. For example: ninespine stickleback and Alaska blackfish.

**Sensitive Fish: (North Slope)**

Species of fish that are sensitive to low concentrations of dissolved oxygen. These include Arctic grayling, Arctic char, lake trout, Dolly Varden, whitefish, and other species.

**Siphon:**

A tube, hose or pipe used to convey water upwards from one location then down to a lower location. Once water has been forced into the tube, hose or pipe, typically by suction or immersion, flow continues unaided.

**Stream Bypass:**

A diversion that returns the water to the same source stream but downstream from the original take point.

**Storage Tanks:**

Containers used to store water for short or long-term use.

**Sub-surface Source:**

Water that lies beneath the ground surface and is accessed through the use of a dug or drilled well, or an excavation such as a trench or pit.

**Surface Source:**

Water that is present on the ground surface such as: river, creek, stream, lake, pond, spring, wetland, etc.)

**Take Point:**

The location where water is withdrawn or diverted from its source.

**Withdrawal:**

A withdrawal occurs when water is taken from a ground or surface water source, either permanently or temporarily, and conveyed to an area or location for use or to a discharge area. A withdrawal is distinguished from a diversion in that a withdrawal occurs by taking water from the source via a hose or pipe wherein the withdrawn water is not in direct contact with the ground over which it is conveyed.

**Alaska Department of Natural Resources  
Division of Mining, Land and Water – Water Resources Section**

Attachment A – Project Description

**PURPOSE AND NEED**

The existing Manokotak road infrastructure is deteriorating due to a lack of proper storm drainage and inferior roadside ditching unable to convey surface water to existing culverts. The proposed rehabilitation project will establish proper road embankments, create roadside ditching improve the storm drainage system, install new culverts at engineered locations, and install new drainage channels interconnecting First, Second, and Third Streets (See Figure 2). Additionally, the streets are very narrow, constricted by the existing 20-foot right-of-way, and parked cars along the shoulders create heavy congestion, especially along Third Street. The establishment of parking areas, proper road embankments, improved storm drainage systems, and appropriate street/stop signage will create safer traveling conditions for residents and enhance the overall road infrastructure in Manokotak.

**PROPOSED PROJECT**

The Manokotak Road Rehabilitation Project will involve the rehabilitation of six (6) roads (0.9 total miles), the installation of new drainage features, and the construction of four on-street parking stalls and ramps along Third Street constructed with retaining walls and guardrails. Road improvements will include the placement of a woven geotextile material to stabilize all subgrades, placement of new fill material to establish proper road embankments, followed by the placement of a crushed aggregate surface course to widen and enhance the traveling surface.

The proposed drainage features include the placement of new appropriately sized culverts along existing roadways, replacement of existing failed culverts, the construction of roadside ditches along all streets, and the installation of rock-filled drainage channels with perforated pipe. The drainage channels will run between lots, perpendicular to First, Second, and Third Street. The new storm drainage features will improve drainage patterns and ensure water conveyance away from residential housing. Additionally, the proposed improvements will prevent ponding in existing roadways, which leads to erosion/rutting, washouts, and health concerns.

The roadway alignments, typical sections, and locations of drainage channels, culverts, and parking stalls are shown on the attached figures.

The proposed project will include the following route-specific improvements (See Figures):

- First Street (Route 1006-10) – First Street, from Salmon Street to Alder Street, will have a 15-foot wide traveling surface. An approximately 18-inch deep ditch will be constructed on the east side of the road.
  - Length – Approximately 820-ft.

- Second Street (Route 1007-10) – Second Street, from Salmon Street to C Street, will have a 15-foot wide traveling surface. An 18-inch deep ditch will be constructed on the east side of the road.
  - Length – Approximately 1,390-ft.
- Third Street (Route 1008-10) - Third Street, from Salmon Street to C Street, will have a 12-foot wide traveling surface. An 18-inch deep ditch will be constructed on the east side of the road, and four on-street parking areas will be constructed along the west side. The on-street parking areas will also include ramps to access residential properties (See Figure 5).
  - Length – Approximately 1,410-ft.
- Salmon Street (Route 1014-10) – Salmon Street, from First Street to Third Street, will have a 15-foot wide traveling surface. A 6-inch deep ditch will be constructed on the north side of the road.
  - Length – Approximately 470-ft.
- Alder Street (Route 1010-10) – Alder Street, from First Street to Third Street, will have a 15-foot wide traveling surface. An 18-inch deep ditch will be constructed on the south side of the road.
  - Length – Approximately 470-ft.
- C Street (Route 1012-10) – C Street, from Second Street to Third Street, will have a 15-foot wide traveling surface. An 18-inch deep ditch will be constructed on the south side of the road.
  - Length – Approximately 230-ft.



Approximate Water Withdrawal Point, Igushik River, Manokotak, AK, 58°58'51.24"N Latitude, 159° 3'35.28"W Longitude



Image / Location source: Google Earth Pro, 2020

**Alaska Department of Natural Resources  
Division of Mining, Land and Water – Water Resources Section**

*Attachment B – Figures*



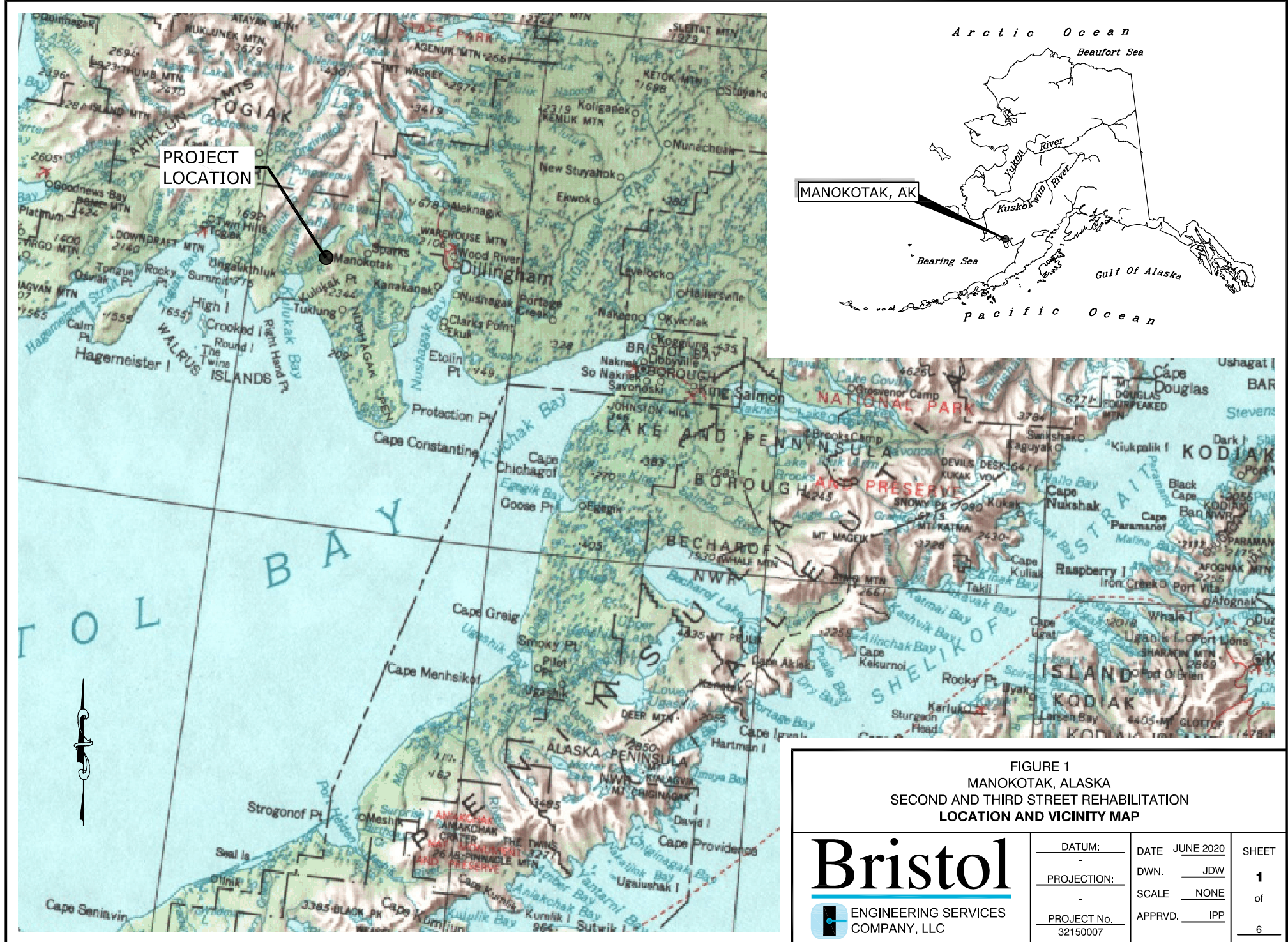
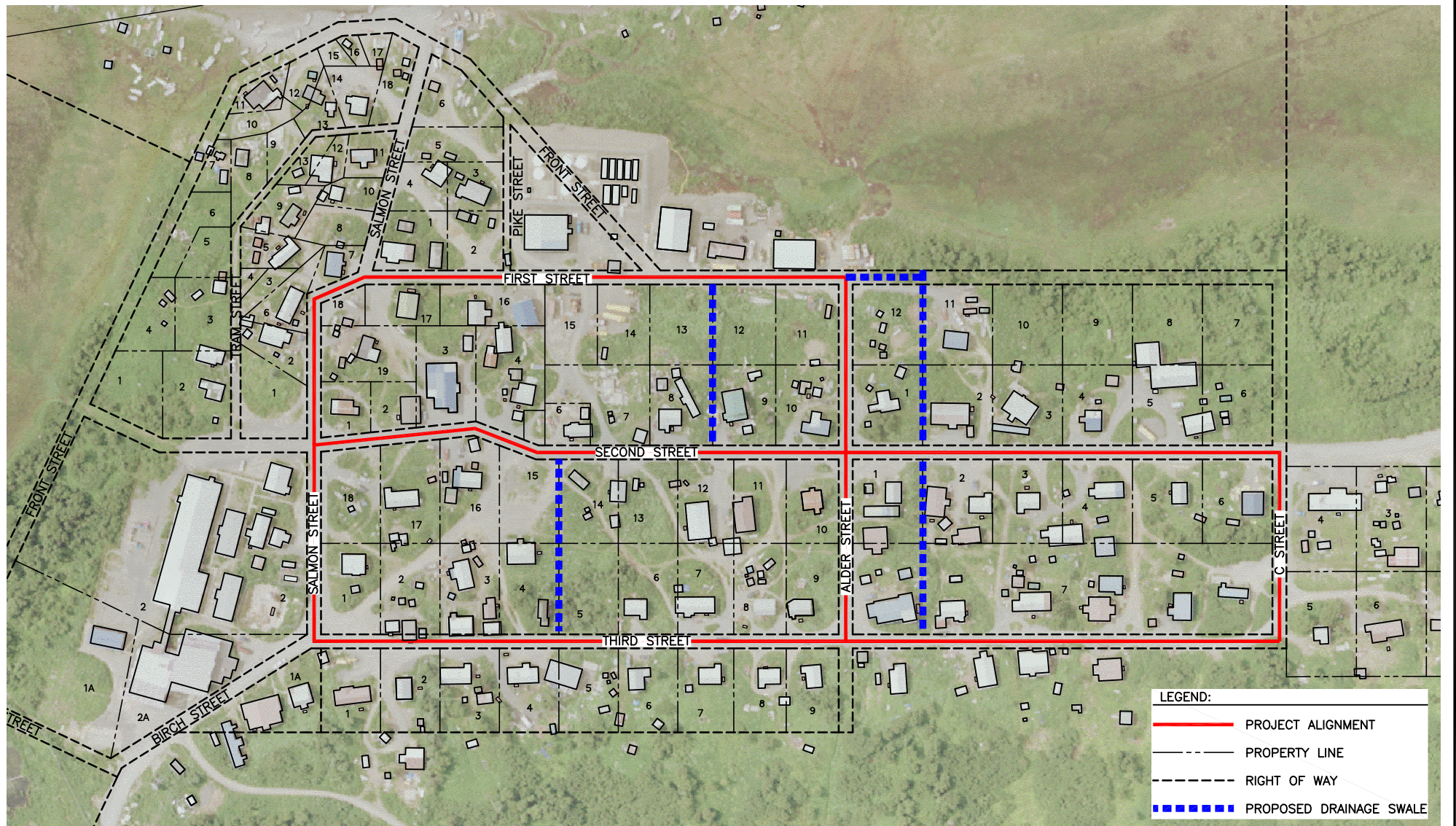


FIGURE 1  
 MANOKOTAK, ALASKA  
 SECOND AND THIRD STREET REHABILITATION  
 LOCATION AND VICINITY MAP





**Bristol**  
 ENGINEERING SERVICES  
 COMPANY, LLC

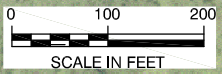
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**LEGEND:**

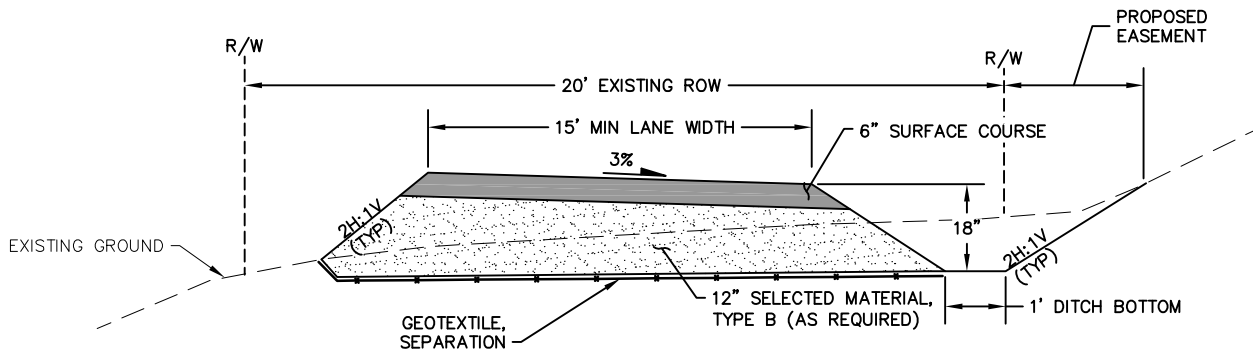
	PROJECT ALIGNMENT
	PROPERTY LINE
	RIGHT OF WAY
	PROPOSED DRAINAGE SWALE



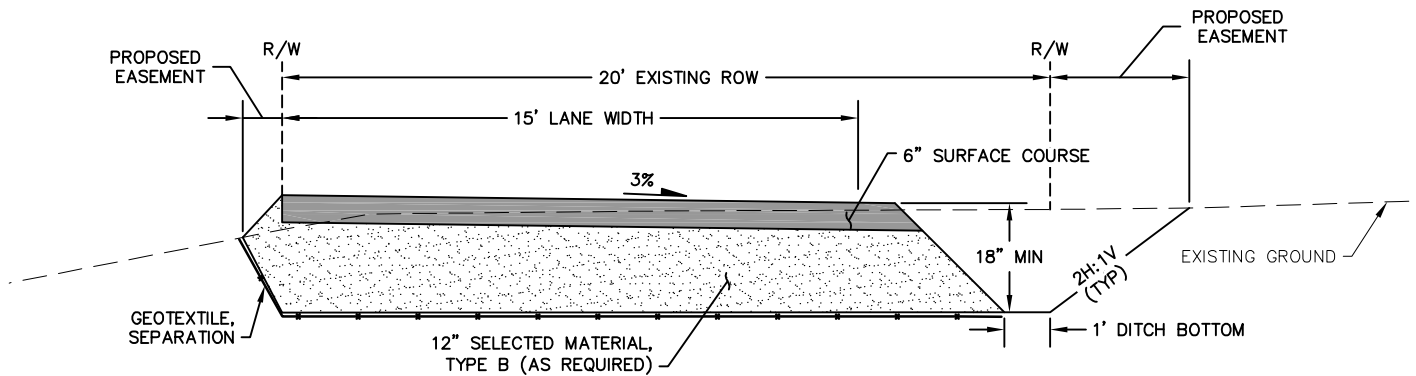
**FIGURE 2**  
**MANOKOTAK, ALASKA**  
**SECOND AND THIRD STREET REHABILITATION**  
**SITE PLAN**

**Bristol**  
 ENGINEERING SERVICES  
 COMPANY, LLC

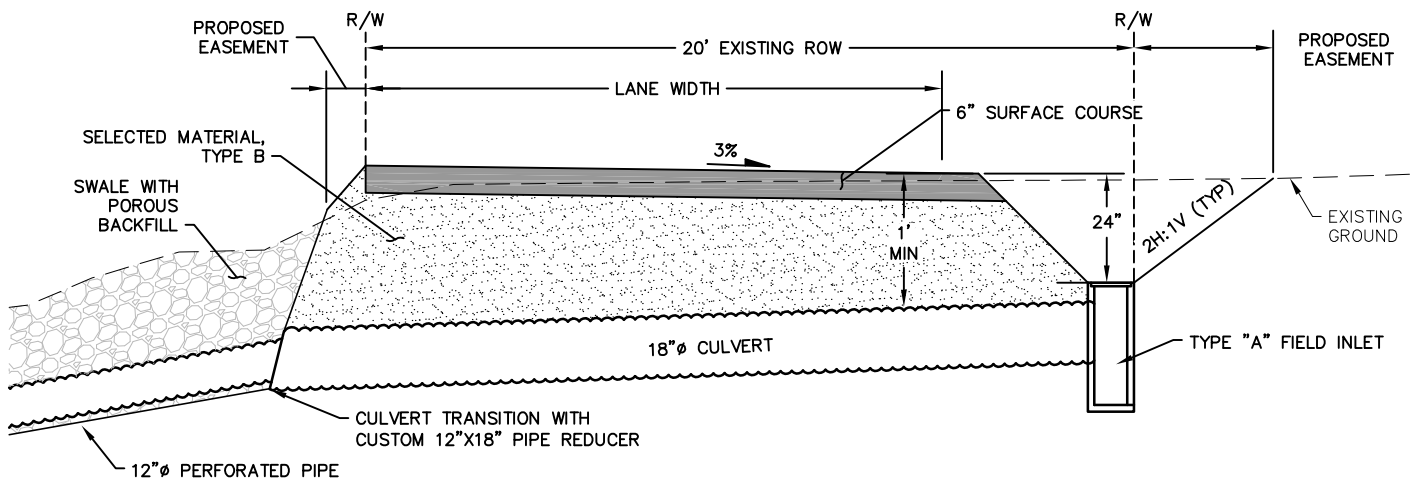
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PROJECT No. 32150007	SCALE <u>SHOWN</u>	of
	APPRVD. <u>IPP</u>	6



**(A) TYPICAL ROAD SECTION - THIRD STREET**  
SCALE: NTS



**(B) TYPICAL ROAD SECTION - ALL OTHER ROADS**  
SCALE: NTS



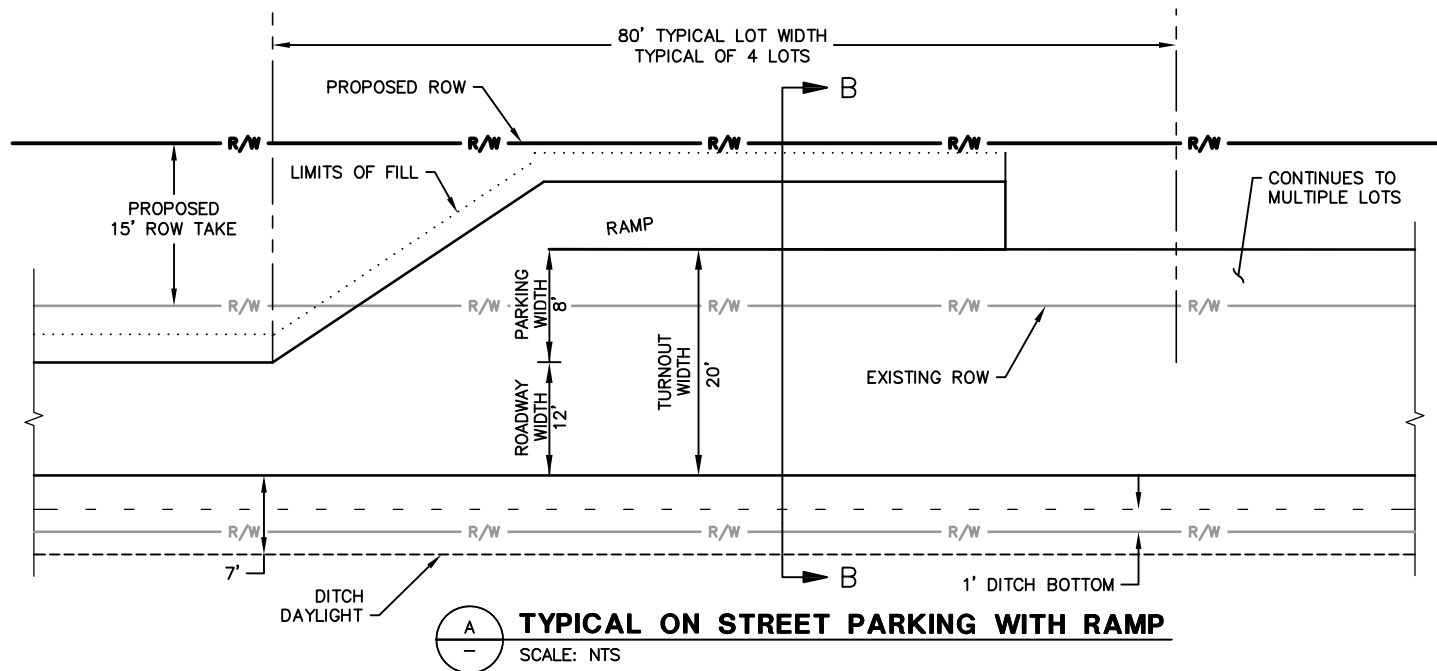
**(C) TYPICAL CULVERT SECTION**  
SCALE: NTS

FIGURE 3  
MANOKOTAK, ALASKA  
SECOND AND THIRD STREET REHABILITATION PROJECT  
TYPICAL SECTIONS

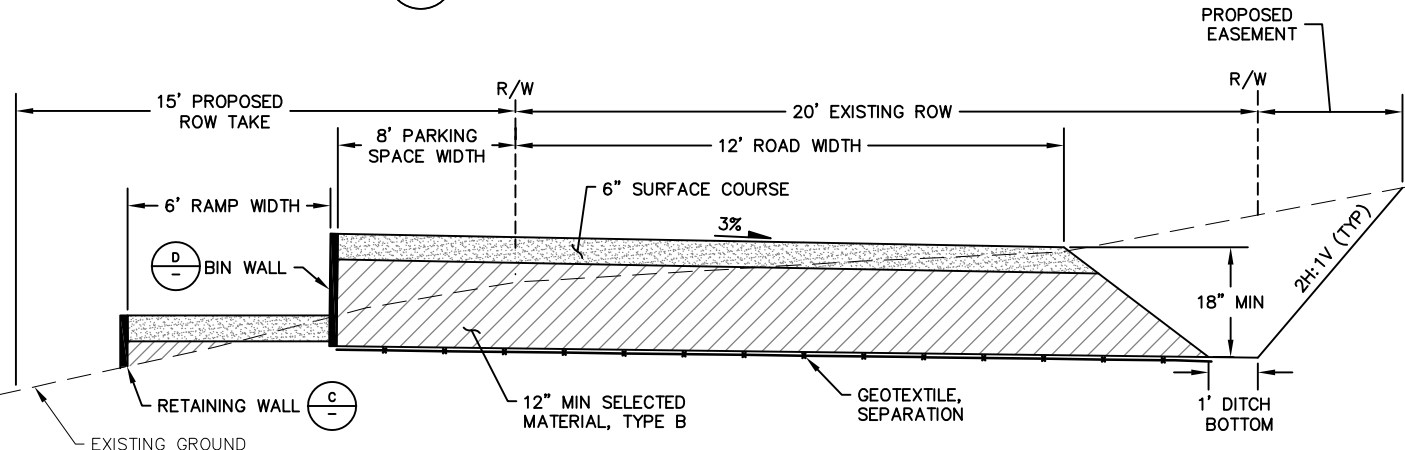


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PROJECTION:	DWN.	JDW	<b>3</b>
PROJECT No.	SCALE	SHOWN	of
32150007	APPRVD.	IPP	6

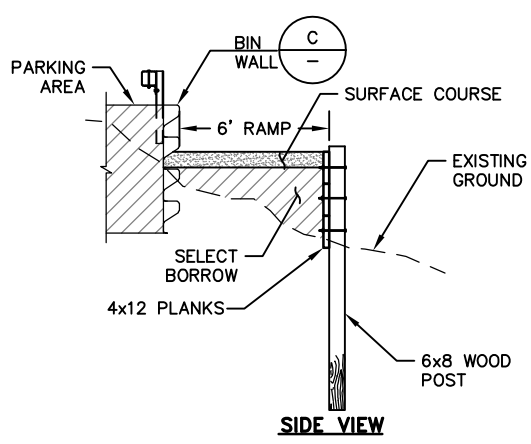
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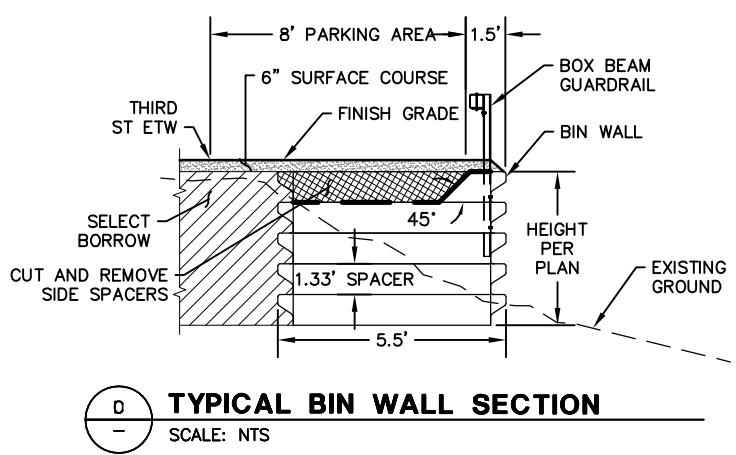
**(A) TYPICAL ON STREET PARKING WITH RAMP**  
SCALE: NTS



**(B) TYPICAL ON STREET PARKING SECTION**  
SCALE: NTS



**(C) TYPICAL RETAINING WALL SECTION**  
SCALE: NTS

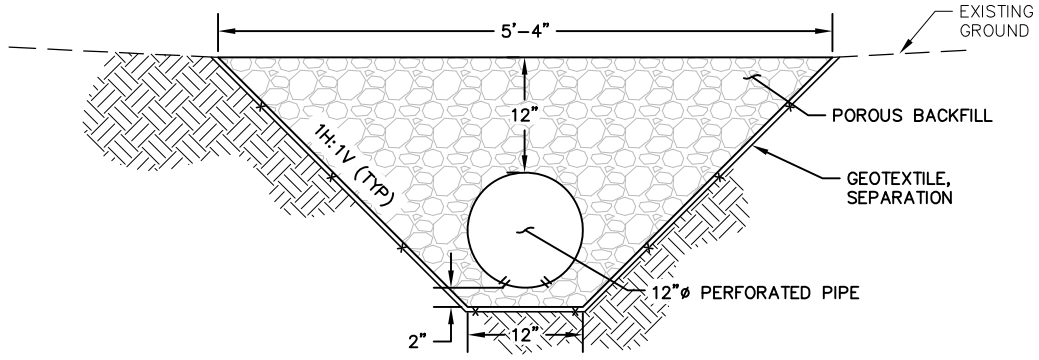


**(D) TYPICAL BIN WALL SECTION**  
SCALE: NTS

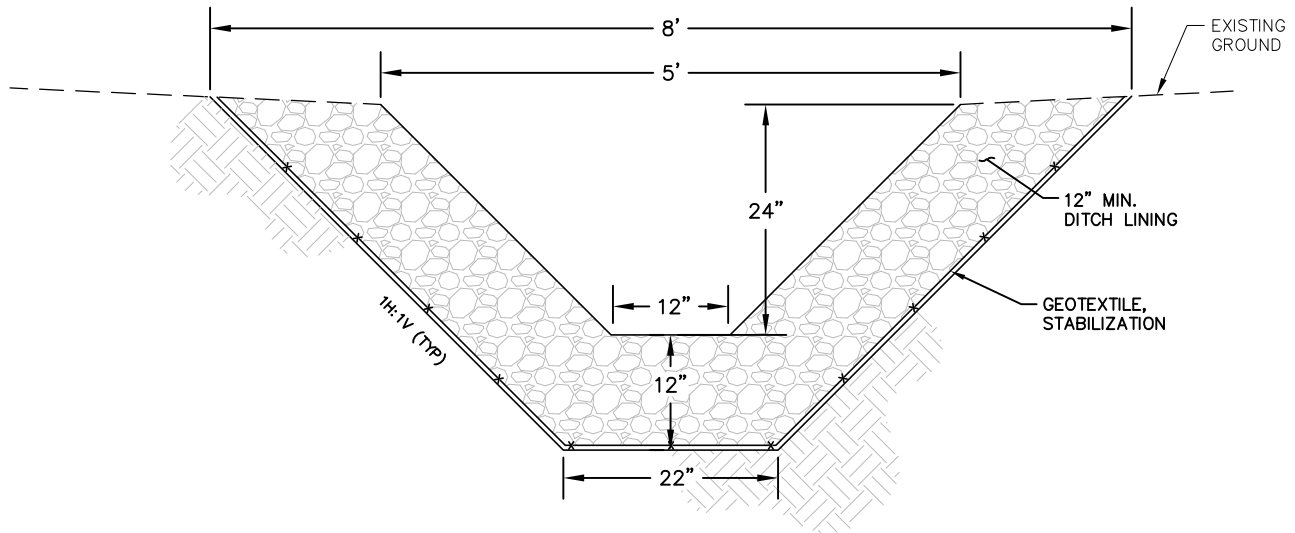
FIGURE 4  
MANOKOTAK, ALASKA  
SECOND AND THIRD STREET REHABILITATION PROJECT  
ON-STREET PARKING DETAILS

	DATUM:	DATE	JUNE 2020	SHEET <b>4</b> of 6
	PROJECTION:	DWN.	JDW	
	PROJECT No.	SCALE	SHOWN	
	32150007	APPRVD.	IPP	





**A** **TYPICAL SWALE TRENCH SECTION WITH PIPE**  
 SCALE: NTS



**B** **TYPICAL OPEN CHANNEL SWALE SECTION**  
 SCALE: NTS

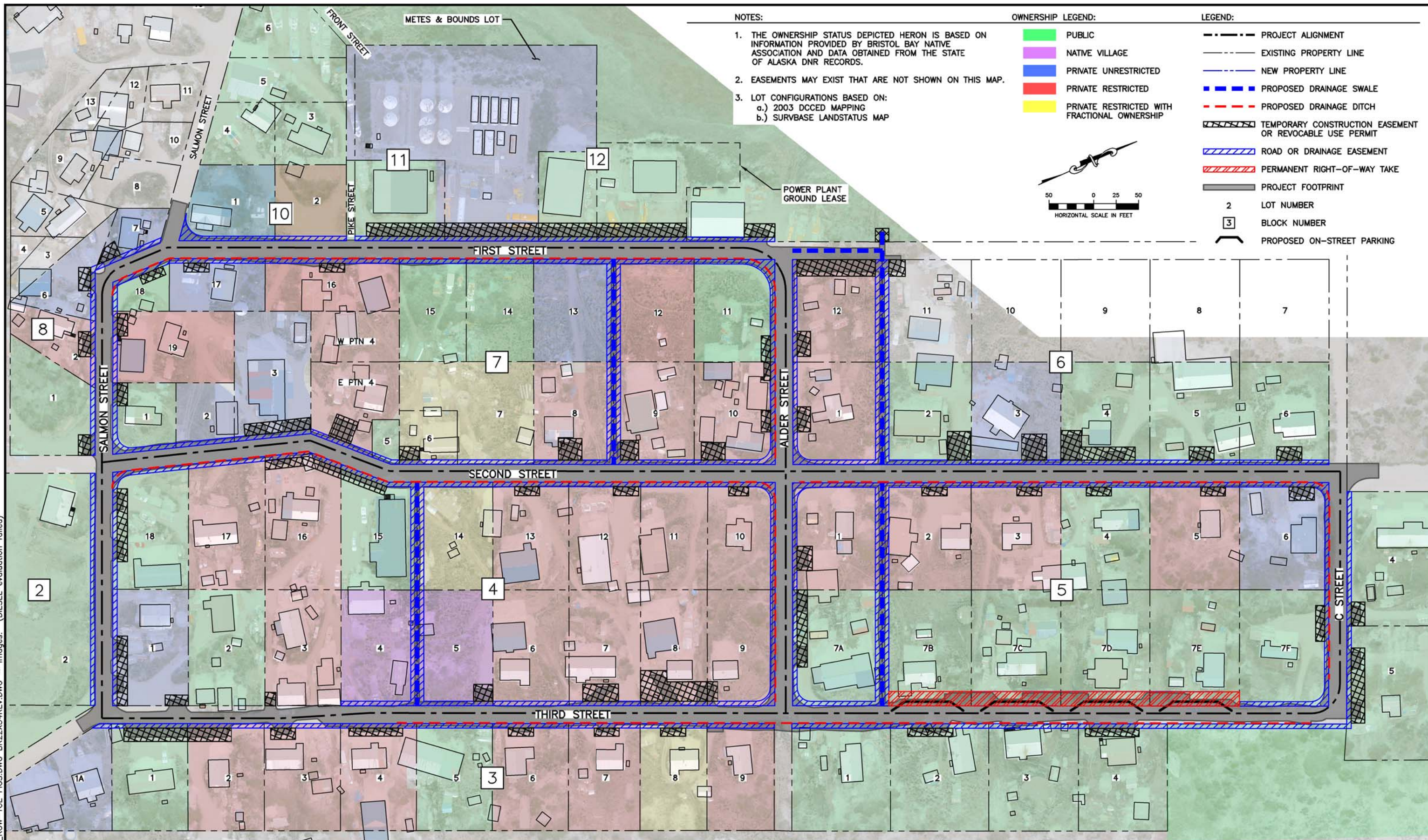
**FIGURE 5**  
**MANOKOTAK, ALASKA**  
**SECOND AND THIRD STREET REHABILITATION PROJECT**  
**TYPICAL SWALE SECTIONS**



DATUM: -	DATE <u>JUNE 2020</u>	SHEET
PROJECTION: -	DWN. <u>JDW</u>	<b>5</b>
PROJECT No. 32150007	SCALE <u>SHOWN</u>	of
	APPRVD. <u>IPP</u>	<u>6</u>



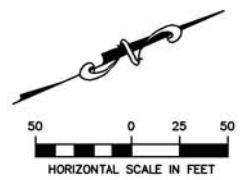
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 Xrefs: 32150007\_BASE\_ROW-TCE\_FIGS.DWG BR22X34REV.DWG - Images: (DIESEL evaluation failed)



- NOTES:
1. THE OWNERSHIP STATUS DEPICTED HERON IS BASED ON INFORMATION PROVIDED BY BRISTOL BAY NATIVE ASSOCIATION AND DATA OBTAINED FROM THE STATE OF ALASKA DNR RECORDS.
  2. EASEMENTS MAY EXIST THAT ARE NOT SHOWN ON THIS MAP.
  3. LOT CONFIGURATIONS BASED ON:
    - a.) 2003 DCCED MAPPING
    - b.) SURVBASE LANDSTATUS MAP

- OWNERSHIP LEGEND:
- PUBLIC
  - NATIVE VILLAGE
  - PRIVATE UNRESTRICTED
  - PRIVATE RESTRICTED
  - PRIVATE RESTRICTED WITH FRACTIONAL OWNERSHIP

- LEGEND:
- PROJECT ALIGNMENT
  - EXISTING PROPERTY LINE
  - NEW PROPERTY LINE
  - PROPOSED DRAINAGE SWALE
  - PROPOSED DRAINAGE DITCH
  - TEMPORARY CONSTRUCTION EASEMENT OR REVOCABLE USE PERMIT
  - ROAD OR DRAINAGE EASEMENT
  - PERMANENT RIGHT-OF-WAY TAKE
  - PROJECT FOOTPRINT
  - LOT NUMBER
  - BLOCK NUMBER
  - PROPOSED ON-STREET PARKING



REVISIONS				REVISIONS			
NO.	DATE	BY	DESCRIPTION	NO.	DATE	BY	DESCRIPTION

**Bristol**  
 ENGINEERING SERVICES COMPANY, LLC  
 111 W. 16th Avenue, Third Floor  
 Anchorage, AK 99501  
 Phone (907) 563-0013 Fax (907) 563-6713  
 License Number: AECC697

Project No. 32150007

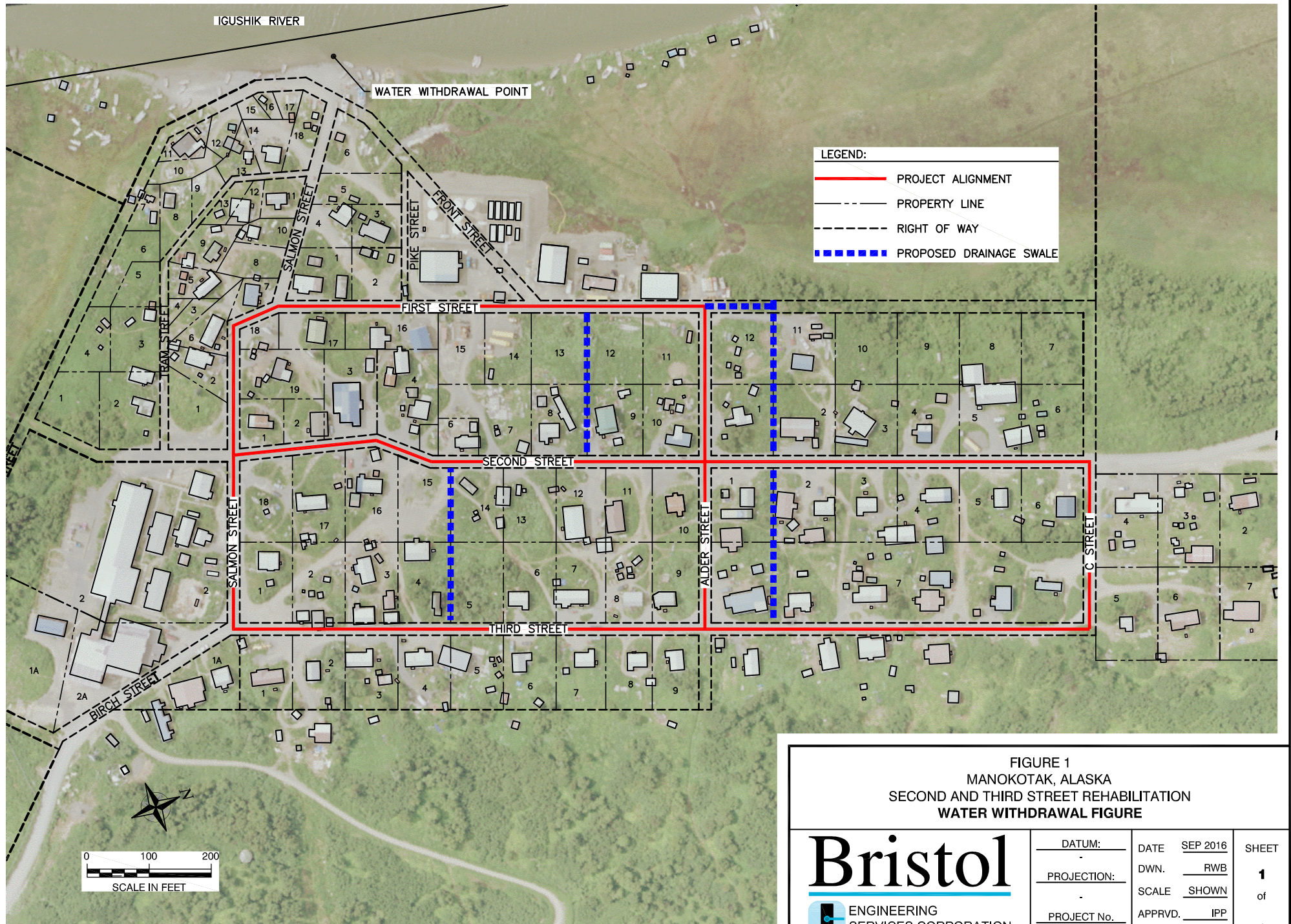
**SECOND AND THIRD STREET REHABILITATION PROJECT  
 MANOKOTAK, ALASKA**

**TEMPORARY AND PERMANENT  
 RIGHT-OF-WAY ACQUISITION**

SCALE: DESIGNED: JDW CHECKED: IPP DRAWN: JDW DATE: JUNE 2020 SHEET 6 OF 6

SHEET NO.  
**FIG 6**







**Alaska Department of Natural Resources  
Division of Mining, Land and Water – Water Resources Section**

Attachment C – Fish Habitat Permit





FH# \_\_\_\_\_  
(Office Use Only)

**FISH HABITAT PERMIT APPLICATION**  
Alaska Department of Fish and Game - Habitat Section  
[Office Locations](#)

**A. APPLICANT**

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Email Address: \_\_\_\_\_

Phone: \_\_\_\_\_ Alt Phone: \_\_\_\_\_

**AGENT / POINT OF CONTACT:**

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Email Address: \_\_\_\_\_

Phone: \_\_\_\_\_ Alt Phone: \_\_\_\_\_

**B. PROJECT DESCRIPTION:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**C. PROJECT TIME FRAME:** \_\_\_\_\_ to \_\_\_\_\_

**D. PROJECT LOCATION:**

Water body name: \_\_\_\_\_

[Anadromous stream number:](#) \_\_\_\_\_

Latitude & longitude in decimal degrees: \_\_\_\_\_

Section \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_ Meridian \_\_\_\_\_ USGS Quad \_\_\_\_\_

**E. WATERBODY CHARACTERISTICS:**

Water body width: \_\_\_\_\_ Water body depth: \_\_\_\_\_

Substrate type (Boulder, cobble, gravel, sand, mud): \_\_\_\_\_

Stream gradient: \_\_\_\_\_

**PLEASE COMPLETE THE APPLICABLE SECTIONS BELOW:**

A list of best practices for many commonly authorized activities can be found at our [Habitat Permits Website](#).

**F. IN-WATER WORK:**

Will you place a structure or any fill below [ordinary high water](#)?  Yes  No

Will you remove material from below ordinary high water?  Yes  No

Type and amount: \_\_\_\_\_

Will you alter the bed or banks of the water body?  Yes  No

How? \_\_\_\_\_

Will you use tracked or wheeled equipment below ordinary high water?  Yes  No

What type? \_\_\_\_\_

Will you drive piles below ordinary high water?  Yes  No

How many and what type? \_\_\_\_\_

Pile installation method:  vibratory hammer  impact hammer  drilled

other: \_\_\_\_\_

Will you divert the stream around the work area?  Yes  No

How long will the stream be diverted? \_\_\_\_\_

How will you divert the stream? \_\_\_\_\_

Will you be placing a coffer dam or silt fencing to isolate the work area?  Yes  No

Will you dewater the work area with a pump?  Yes  No

Who will trap fish and remove them from the work area? \_\_\_\_\_

*Capture and relocation of fish will require an [Aquatic Resource Permit](#) from the ADF&G Division of Sport Fish.*

**G. STREAM CROSSINGS:**

What type of vehicles or equipment will cross the stream or lake?

\_\_\_\_\_

How many crossings (one-way) will be required? \_\_\_\_\_

Will you build ice bridges for winter crossing?  Yes  No

**H. WATER WITHDRAWAL:**

Pump intake size (inches): \_\_\_\_\_ Maximum pumping rate (gpm): \_\_\_\_\_

Total daily amount (gal): \_\_\_\_\_ Total seasonal amount (gal): \_\_\_\_\_

*Water withdrawal from fish-bearing waterbodies will require appropriate intake screening to avoid impacts to fish. Screening criteria can vary by location depending on the species of fish and life stages present at the time of withdrawal. Contact the [Habitat Section](#) for more information on intake screens.*

Intake screening specifications (attach photos if available):

\_\_\_\_\_  
\_\_\_\_\_

**Please attach plans, specifications, aerial photographs, site rehabilitation plans, or other information in support of your application. Submit your completed application by postal mail, email, or in person at the appropriate [Habitat Section office](#).**

I certify all information provided in my application and supporting documents is true and complete to the best of my knowledge.

\_\_\_\_\_  
Applicant Signature

\_\_\_\_\_  
Date

**Alaska Department of Fish and Game**  
**Fish Habitat Permit Application – General Waterway/Waterbody**

Attachment A – Additional Information

**Step B: Type and Purpose of Project**

**PROPOSED PROJECT**

The Manokotak Road Rehabilitation Project will involve the rehabilitation of six (6) roads (0.9 total miles), the installation of new drainage features, and the construction of four on-street parking stalls and ramps along Third Street constructed with retaining walls and guardrails. Road improvements will include the placement of a woven geotextile material to stabilize all subgrades, placement of new fill material to establish proper road embankments, followed by the placement of a crushed aggregate surface course to widen and enhance the traveling surface.

The proposed drainage features include the placement of new appropriately sized culverts along existing roadways, replacement of existing failed culverts, the construction of roadside ditches along all streets, and the installation of rock-filled drainage channels with perforated pipe. The drainage channels will run between lots, perpendicular to First, Second, and Third Street. The new storm drainage features will improve drainage patterns and ensure water conveyance away from residential housing. Additionally, the proposed improvements will prevent ponding in existing roadways, which leads to erosion/rutting, washouts, and health concerns.

The roadway alignments, typical sections, and locations of drainage channels, culverts, and parking stalls are shown on the attached figures.

The proposed project will include the following route-specific improvements (See Figures):

- First Street (Route 1006-10) – First Street, from Salmon Street to Alder Street, will have a 15-foot wide traveling surface. An approximately 18-inch deep ditch will be constructed on the east side of the road.
  - Length – Approximately 820-ft.
- Second Street (Route 1007-10) – Second Street, from Salmon Street to C Street, will have a 15-foot wide traveling surface. An 18-inch deep ditch will be constructed on the east side of the road.
  - Length – Approximately 1,390-ft.
- Third Street (Route 1008-10) - Third Street, from Salmon Street to C Street, will have a 12-foot wide traveling surface. An 18-inch deep ditch will be constructed on the east side of the road, and four on-street parking areas will be constructed along the west side. The on-street parking areas will also include ramps to access residential properties (See Figure 5).
  - Length – Approximately 1,410-ft.

- Salmon Street (Route 1014-10) – Salmon Street, from First Street to Third Street, will have a 15-foot wide traveling surface. A 6-inch deep ditch will be constructed on the north side of the road.
  - Length – Approximately 470-ft.
- Alder Street (Route 1010-10) – Alder Street, from First Street to Third Street, will have a 15-foot wide traveling surface. An 18-inch deep ditch will be constructed on the south side of the road.
  - Length – Approximately 470-ft.
- C Street (Route 1012-10) – C Street, from Second Street to Third Street, will have a 15-foot wide traveling surface. An 18-inch deep ditch will be constructed on the south side of the road.
  - Length – Approximately 230-ft.

#### **PURPOSE AND NEED**

The existing Manokotak road infrastructure is deteriorating due to a lack of proper storm drainage and inferior roadside ditching unable to convey surface water to existing culverts. The proposed rehabilitation project will establish proper road embankments, create roadside ditching improve the storm drainage system, install new culverts at engineered locations, and install new drainage channels interconnecting First, Second, and Third Streets (See Figure 2). Additionally, the streets are very narrow, constricted by the existing 20-foot right-of-way, and parked cars along the shoulders create heavy congestion, especially along Third Street. The establishment of parking areas, proper road embankments, improved storm drainage systems, and appropriate street/stop signage will create safer traveling conditions for residents and enhance the overall road infrastructure in Manokotak.

## **Step F: Site Rehabilitation / Restoration Plan**

The following precautions and construction activities will be taken to ensure that fish and other aquatic organisms are protected from adverse impacts:

- A Temporary Water Use Permit will be acquired from the Alaska Department of Natural Resources (ADNR)-Division of Mining, Land and Water (MLW) for fresh water withdrawal from the Igushik River for compaction and dust suppression.
- The pump hose used to withdraw water from the Igushik River will be fitted with an appropriately sized fish screen.
- The installation of culverts, road-side ditches, and drainage channels will help mitigate flooding, erosion, and other storm water issues along the project corridor.
- Best Management Practices (BMPs) from the yet-to-be-determined project contractor will be used to maintain State Water Quality Standards in the event of a spill or other incident.

The project will not disturb more than one acre of undisturbed land. No channel or bank alterations of the Igushik River will occur as part of this project. There is no wastewater discharge associated with the proposed project. The project does not contain any waters of the US and will therefore not impact any wetlands habitat. The proposed action will not result in excessive levels of organic materials, inorganic nutrients, or heat, and is not anticipated to cause an adverse impact on essential fish habitat.